98-84395-1 Davis, Charles Henry

How the U.S. can get good roads everywhere...

[Washington, D.C.]

[1918]

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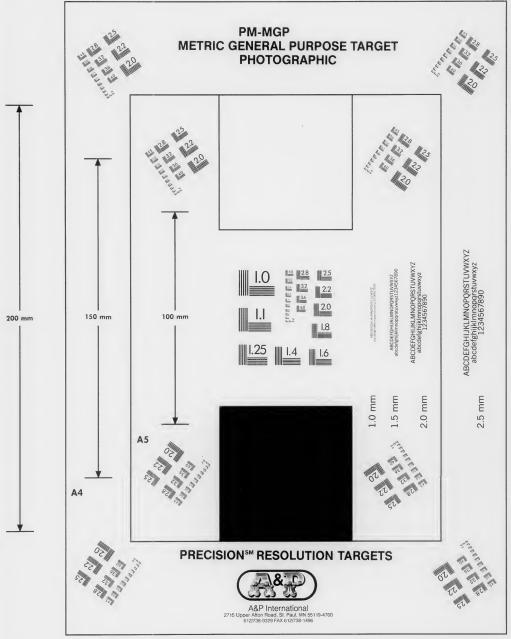
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How the United States Can Get



INCORPORATED A.D. NINETEEN HUNDRED AND TWELVE IN THE CITY OF WASHINGTON DISTRICT OF COLUMBIA, UNITED STATES OF AMERICA

A membership corporation which exists to favor, foster, and further the development of NATIONAL HIGHWAYS and GOOD ROADS EVERYWHERE in the length and breadth of these United States of America, and to secure the benefits — social, moral, commercial, industrial, material, educational, and personal — in the progress and uplift of the American people which follow in the train of easy intercommunication and transit between the great centers of population and distribution and the great rural productive areas of the Nation, and will "bind the States together in a common brotherhood, and thus perpetuate and preserve the Union."

Good Roads Everywhere

Through a System of National Highways

An Address by Charles Henry Davis, C. E., President National Highways Association Offered to Those Assembled at the Meeting of the United States Good Roads Association Little Rock, Arkansas, April 15, 16, 17, 18, and 19, 1918



POOR ROADS - 2,000,000 MILES OF THEM!

Plodding, straining every muscle, Mud and water to their knees, Two miles an hour is rapid going,

OW can the United States—48 of them—get Good Roads Everywhere? One hundred million people want them. They have needed them one hundred years or more. They have wanted them fifty years or more. Why have we grown into one of the great nations of the world, to be the only great nation without Good Roads Everywhere? How did our more active and prosperous counties first get their good roads, such as they were? How did the few States, that as yet have only made but a beginning, get theirs? The answers will show us the way, if we have the honesty and the truth to follow.

One thing is sure. No such platitudinous resolutions as were adopted by the Chamber of Commerce of the United States at Atlantic City, September 24, 1917, will help much. They advocate no plan. They have no real force or purpose. In fact there is but one plan that will attain our great objective,—GOOD ROADS EVERYWHERE,—only one way—the way advocated by the National Highways Association and its founders. The only definite, concrete plan advanced from any source—the plan advocated from the beginning in the educational program of the Association—is the plan expressed in the name of the Association—NATIONAL HIGHWAYS. This is the plan followed in other countries where they have attained Good Roads Everywhere, and is likewise the method whereby a few good State highways have been attained by a very few of our 48 States.

Our nation is spending billions of our money in war preparation. Much that is going into emergency efforts will be thrown away. Very much less than our people are yet aware of is going into sound, lasting,

permanent preparedness. A great military authority, of national repute and patriotism, has said:—

"We could probably obtain adequate national defenses in ten or fifteen years, provided we seriously undertook and conscientiously carried through the work."

The same authority recently wrote the author the following (to quote and paraphrase):—

"National Highways will do more than any other one thing for real development and defense of our country."

And yet we have voted billions upon billions of money, of which practically nothing is for millitary or industrial roads. Such a policy—or lack of policy—does not make for the confidence of our people. We are all for preparedness—real preparedness—for the defense of our dear country.

It is stated that 50,000 or more loaded cars are in transit that cannot be handled at our eastern, western, and southern seaports. Loaded freight cars are standing on hundreds of miles of sidings within two or three hundred miles of these terminals. These cars cannot be moved. Flour, grain, lumber, iron, and steel are stopped in transit. Lack of cars and locomotives, inadequate harbor facilities, docks, lighters, vessels,



"GOOD ROADS EVERYWHERE"

There is life and health and pleasur In the sunshine and the air; Two fast horses and a surrey And—"Good Roads Everywhere"!

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In the sunshine and the air;
Two fast horses and a surre;
And — "Good Roads Everywhere"!



A COMMON THING—ABANDONED FARM ON A BAD ROAD
There are Thousands of Them on Our 2,000,000 Miles of Poor Roads!

Eif; million country prople—men, women, children—live on 2,000,000 miles of roads
the like. They have the right to live on "Good Roads Everywhere," The Nation
should give them "Good Roads Everywhere."



NO ABANDONED FARMS ON THIS ROAD OR ON "GOOD ROADS EVERYWHERE" Give our people roads like this and they will "go back to the land." They belong there! They will be huppy there! They will be proparous there! And this is the only

terminals, and tracks are all partly held responsible for the trouble. Shipments of freight, and even express, over distances of less than 100 miles, take weeks for their delivery.

This being true in time of peace within our home territory, although at war upon foreign soil, is it not obvious that in times of war within our own borders we would find ourselves absolutely without the needed transportation facilities? Such transportation preparedness is the rock upon which battles are won or lost.

The French, in 1870-71, were defeated largely for that reason. Troops held for days where they are not supposed to be, without support or supplies and food, become mobs, and mobs cannot fight.

Battles cannot be successfully fought unless the machinery of transportation for men, horses, artillery, equipment, ammunition, supplies, and food is on time like clockwork. There can be no waiting, no delays, and promptness in execution depends primarily upon transportation.

And how well equipped do we find our country in highway transportation facilities? Worse, far worse, than our railroads. And yet our highways should supplement our railroads as well as perform their natural functions. As a matter of fact, to all intents and purposes, we have not even begun to get good highways for peaceful, industrial uses. One can only travel a few miles over a good road before coming to many, many miles of poor roads, and more of utterly vile ones, for many months in the year. Hardly a mile of even our so-called good roads could stand the constant, intensive traffic of a military campaign. They have not been located or built with any thought of such possible use. Most of them are not even wide enough for industrial uses, to say nothing of their construction.

We seem to go ahead with our eyes shut and our minds closed to what Europe has accomplished in highway building. Germany, even today, in the midst of a life-and-death struggle with overwhelming odds, is putting more effort into building military and industrial roads than

into almost any other one activity. Many of our so-called road officials are butchers, bakers, or candlestick makers, quite incapable of doing what should be done even though told what was necessary.

Our system of roads could be made to help out our railroads both in times of peace and times of war. There is, however, but one way to attain these results within any reasonable cost and time. Just as town or township roads were unable to properly serve a county, so county roads were found inadequate for State needs, and now we are seeing that State roads cannot serve the nation.

We must have a four-fold system of highways—national, state, county, and town (or township)—before we can possibly hope for a road system that will serve our people. As these roads are paid for by the people, owned by the people, and free to all the people, they can be located and built primarily to best serve the people, both in peace and in war.

Our States do not permit their counties to dictate the terms and conditions under which State highways shall be built. Our States would scout the idea of leaving to their counties the building of State highways passing through said counties. The nation cannot permit the States to dictate the terms and conditions upon which our national highways shall be built. The nation cannot permit the States to build them piecemeal. The nation must do the work, pay for it, and afterwards maintain our great system of national highways, that they may "exist to favor, foster, and further the development of good roads everywhere in the length and breadth of these United States of America, and which will secure the benefits — social, moral, commercial, industrial, material, educational, and personal - in the progress and uplift of the American people which follow in the train of easy intercommunication and transit between the great centers of population and distribution and the great rural productive areas of the nation, and 'TO BIND THE STATES
TOGETHER IN A COMMON BROTHERHOOD, AND THUS PER-PETUATE AND PRESERVE THE UNION."

To repeat. Only by the method followed in other countries can we attain Good Roads Everywhere. They all have built great NATIONAL millitary and industrial highways. There is no other road for us towards Good Roads Everywhere than by and through a system of National Highways built and maintained by the National Government.

None of our transcontinental highway associations—standing for the building of North and South, East and West, roads—can hope for their realization except by and through their building by the National Government. The great projected Bankhead National Highway can never be built, finished, and maintained in any other way. So it will be with the Lincoln Highway, the National Old Trails Road, the Dixie Highway, the Dixie Overland Trail, the Jefferson Davis Memorial Highway, the Jackson Military Highway, the Southern National Highway, Meridian Road, Pacific Highway, and all the other hundred and more similar associations now affiliated with the National Highways Association.

Many people in the small northeastern section of our country are antagonistic to the National Government engaging in road building. This section comprises the six New England States and New York, New Jersey, and Pennsylvania. Comparatively few people in the South, Southwest, Mississippi Valley States, Northwest, Rocky Mountain regions, and the Pacific States, comprising the rest of the country, appreciate or understand this antagonistic point of view. This objection is not confined to a particular plan, but to any participation in such an undertaking by the National Government. Of course all Easterners are not so opposed. The big, broad-minded, far-seeing men of vision know to the contrary. Also, many people do not know the vital difference between so-called "Federal Aid" and National Highways. The former gifts of moneys to the States to help build roads. Various plans for this are suggested, but they are all fundamentally unsound because of the "aid" or "gift" feature contained in all. This method relieves the Federal Government of all responsibility, and will inevitably result in "pork" and not in roads. National Highways, on the other hand, limit the mileage and fix the responsibility where the people can see and judge of the honesty and efficiency of their public servants, and thus assure the money getting into roads.

If there is one section of the country more than another where the good roads movement has not gained a foremost place in the minds of the people, it is the northeast corner, comprising New England and the Middle Atlantic States:—

Maine Massachusetts New York
New Hampshire Rhode Island New Jersey
Vermont Connecticut Pennsylvania

There are many reasons for this, the most important being the following: ____

The States above named are, as a group, the oldest and wealthiest in the Union. Their population is comparatively dense. Large and wealthy cities abound. Their roads, while not by any means approaching what they should be, are in general superior to those of the remainder of the country. Much more money has been available for their



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If there is one section of the country more than another where the good roads movement has not gained a foremost place in the minds of the people, it is the northeast corner, comprising New England and the Middle Atlantic States:—

Maine	Massachusetts	New York
New Hampshire	Rhode Island	New Jersey
Vermont	Connecticut	Pennsylvania

There are many reasons for this, the most important being the following: ____

The States above named are, as a group, the oldest and wealthiest in the Union. Their population is comparatively dense. Large and wealthy cities abound. Their roads, while not by any means approaching what they should be, are in general superior to those of the remainder of the country. Much more money has been available for their

improvement than for those located in the newer, more sparsely settled and therefore poorer, States.

The percentage of improved roads in this northeastern corner is 14.47%. In the remainder of the country only 7.83% are improved, or relatively about half as great. This northeastern corner has 12.2% the total mileage of all public roads, while the rest of the Union has 87.8%. On the other hand, the East has little to be proud of. This seeming superiority is really not as great as should be expected. The population is 28% of the whole; the wealth, 30.4%; the area, only 5.4%. Surely the East has little to be proud of with such greater advantages. This is more clearly brought out by the following table:-

Item	Whole United States	Northeastern Corner	
Population	91,972,266	25,868,573	28.0
Wealth	\$107,104,211,917	\$38,301,588,571	35.8
Improved Roads (miles)	190,476	38,868	20.2
Land Area (square miles)	2,973,890	161,976	5.4
Public Roads (total miles)	2,199,646	268,534	12.2
National Highways (proposed)	50,485	5,143	10.1

Thus, it is shown that the Central, Western, and Southern States have made greater progress in road construction in relation to their wealth, population, and area, and therefore ability, than the Eastern States.

But possibly the greatest factor which causes some Eastern people to be relatively phlegmatic in regard to good roads, or possibly even antagonistic to them, is that this movement has now come to direct its attention very largely upon the National Government participating in road construction. The reason is not hard to find, Among all the various plans which, from time to time, have been advanced, either for "Federal Aid" to the States or for National Highways, there are none which, upon casual inspection, appear to give the Eastern States a fair share of the money or roads, as the case may be. With most of the plans this criticism is quite just. On the other hand, a system of National Highways can be so designed, and its financing so arranged, that no such criticism will be justified.

When an Easterner looks at a map of the United States upon which arc drawn a number of lines, all of equal weight, representing a system of National Highways, he is quite likely to say to himself, "The sparsely settled Western States get most of the roads, whereas we of the thickly settled East will have to pay for them." Most likely he will not stop to think that the roads would NOT all be constructed of the same materials, and be of the same width and thickness, thereby costing the same amount per mile to build.

Without attempting to designate what type of road should be built in any section of the country, nor to predict the cost of same, it is quite apparent that to build an expensive asphalt boulevard in a sparsely populated district would be money thrown away. Likewise, to build a light, water-bound, macadam road to connect two large cities, a short distance apart, would be worse than folly. It is therefore obvious that national funds for National Highways would be spent in an equitable manner, dependent upon the relative traffic which the designated roads would have to carry and which in turn bears a close relation to the density of population.

A second objection which an Eastern man might offer against National Highways is that many of the through roads of the East have National ringinways is that many of the integral roses of the Last Metallready been improved at State or local expense. To turn these over to the National Government for National Highways would therefore appear to mean a double contribution to this work. The answer to this argument is that a fair compensation should be paid by the Government for all improved roads, thus taken over.

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If, however, National Highways should still seem to produce a balance to the good for the West and South over the East, such favoritism would still be only apparent and not real, for many reasons. The improvement of those roads which naturally would comprise a system of National Highways will be primarily of national benefit also. To within a short time roads were always considered of purely local interest. For this reason, more than any other, they have remained unimproved. It is not necessary to go into arguments to prove how each individual road is not necessary to go fitto arguments to prove now each morroran rought has its proportionate effect upon the prosperity and welfare of the entire country. As a typical example, the following will indicate how the East must vastly benefit by good roads in the West. Practically half (47.5%) of the manufactured products of this

ountry are made in factories located in the previously named Eastern tates. Their area comprises only about five per cent (5%) of the total area of the United States. On the other hand, the raw materials used in this manufacturing cone very largely from the remaining ninety-five per cent (95%) of the country. The great army of people in the East, dependent for their living upon these manufacturing establishments, should therefore be greatly interested in the roads of the West over which their raw materials must be hauled for a greater or less distance. A like argument also applies to the raising of farm products in the West and their consumption in the East. Can any one argue that good roads in the West will not lower the cost of living in the East as well as the West?

A slightly different view-point can be illustrated by reference to the State of Montana. The great copper-mines which produce so much wealth in this State are largely owned in Boston and vicinity. Do not these Eastern residents owe it to Montana to help provide for their mese Lastent roads of Massachusetts? The railroads of the West are mostly owned in the East. So are many other industries. The East automatically gains immense profits out of the activities of the West. National Highways will automatically return some of it where





ROADS - GOOD SCHOOLS - KNOWLEDGE - PROSPERITY With '

Thirty million school children could ALL go to school every day in the year with "Gallonds Everywhere."

it will again redound to the benefit of the West, only to react again

it will again redound to the benefit of the west, on the East.

One could go on citing examples of this kind without number, all proving the great truth that whatever benefits one portion of a nation benefits the WHOLE nation. This must be admitted by all except those afflicted with an abnormal amount of sectional pride or greed. And, in affired with an abnormal amount of sectional pride or greed. And, in view of this fact, it is believed that no one can offer any sound objection to the building of a comprehensive system of National Highways,—highways built, owned, maintained, and controlled by the people of the whole Nation as a unit, and likewise for the use and benefit of all the people, East and West and North and South.

The thirty-nine States of the Union outside of this small northeastern section have 78 votes in the United States Senate to 18 representing the nine Northeastern States. Some of these 18 are big enough and broad enough to know the untold value of such a system of National Highways. These thirty-nine States also have 312 votes in the House of Representatives while the nine Northeastern States have only 123 votes, some of which also know and understand the economic, financial, social, and moral value of the National Highways as the only vehicle by which the Nation can attain Good Roads Everywhere.



NATIONAL HIGHWAYS ASSOCI-The NATIONAL FIGHTWATE ASSOCIATION takes pleasure in complying with the request of the Treasury Department of the United States Government to displicit in all of its publications the War Savings Stamp Appeal as it appears herewith. improvement than for those located in the newer, more sparsely settled and therefore poorer, States.

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The percentage of improved roads in this northeastern corner is 11,17%. In the remainder of the country only 7,83% are improved, or relatively about half as great. This northeastern corner has 12,2% of the total mileage of all public roads, while the rest of the Union has 87,8%. On the other hand, the East has little to be proud of. This seeming superiority is really not as great as should be expected. The population is 28% of the whole; the wealth, 30,4%; the area, only 5,4%. Surely the East has little to be proud of with such greater advantages. This is more clearly brought out by the following table:

The state of the s	it by the tollowing	g tame;	
Projection 1997	Whole United States	Northeistern Corner	Per Cent
Population	91,972,266	25,868,573	28.0
Wealth		838,301,588,571	35.8
Improved Boads (miles)		38,868	20.2
Land Area (square miles)	2,973,890	161,976	5.1
Public Boads (total miles)	2,199,646	268,531	12,2
National Highways (proposed)	50, 185	5,143	10.1

Thus, it is shown that the Central, Western, and Southern States have nade greater progress in road construction in relation to their wealth, population, and area, and therefore ability, than the Eastern States.

But possibly the greatest factor which causes some Eastern people to be relatively phleganatic in regard to good roads, or possibly even antagonistic to them, is that this movement has now come to direct its attention very largely upon the National Government participaling in road construction. The reason is not hard to find. Among all the various plans which, from time to time, have been advanced, either for "Federal Aid" to the States or for National Highways, there are none which, upon casual inspection, appear to give the Eastern States a fair share of the money or roads, as the case may be. With most of the plans this criticism is quite just. On the other hand, a system of National Highways can be so designed, and its financing so arranged, that no such criticism will be justified.

When an Easterner looks at a map of the United States upon which are drawn a number of lines, alf of equal weight, representing a system of National Highways, he is quite likely to say to himself, "The sparsely settled Western States get most of the roads, whereas we of the thickly settled East will have to pay for them." Most likely he will not stop to think that the roads would NOT all be constructed of the same materials, and be of the same width and thickness, thereby costing the same amount ore unite to build.

without attempting to designate what type of road should be built on any section of the country, nor to predict the cost of same, it is quite apparent that to build an expensive asphalt boulevard in a sparsety populated district would be money thrown away. Likewise, to build a light, water-bound, macadam road to connect two large cities, a short distance apart, would be worse than folly. It is therefore obvious that national funds for National Highways would be spent in an equitable manner, dependent upon the relative traffic which the designated roads would have to carry and which in turn bears a close relation to the density of nountation.

or population.

A second objection which an Eastern man might offer against National Highways is that many of the through roads of the East have already been improved at State or local expense. To turn these over to the National Government for National Highways would therefore appear to mean a double contribution to this work. The answer to this argument is that a fair compensation should be paid by the Government for

all improved road, thus taken over, if, however, National Highways should still seem to produce a balance to the good for the West and South over the East, such favoritism would still be only apparent and not real, for many reasons. The improvement of those roads which naturally would comprise a system of National Highways will be primarily of national benefit also. To within a short time roads were always considered of purely local interest. For this reason, more than any other, they have remained unimproved. It is not necessary to go into arguments to prove how each individual road has its proportionate effect upon the prosperity and welfare of the entire country. As a typical example, the following will indicate how the East must vastly benefit by good roads in the West.

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Practically half (47.5%) of the manufactured products of this country are made in factories located in the previously named Eastern States. Their area comprises only about five per cent (5%) of the total area of the United States. On the other hand, the raw materials used in this manufacturing come very largely from the remaining ninety-five per cent (5%) of the country. The great army of people in the East, dependent for their living upon these manufacturing establishments, should therefore be greatly interested in the roads of the West over which their raw materials must be hauted for a greater or less distance. A like argument also applies to the raising of farm products in the West and their consumption in the East. Cam any one argue that good roads in the West will not lower the cost of living in the East as well as the

A slightly different view-point can be illustrated by reference to the State of Montana. The great copper-mines which produce so much wealth in this State are largely owned in Boston and vicinity. Do not these Eastern residents owe it to Montana to help provide for their roads as well as the roads of Massachusetts? The railroads of the West are mostly owned in the East. So are many other industries. The East automatically gains immense profits out of the activities of the West. National Highways will automatically return some of it where



POOR ROADS—POOR SCHOOLS—ROORANCE—POYERTY
With 2,000,000 Jüles of Roads Like This;
Many of 18,000,000 school children often do not get to school on 2,000,000 miles of roads
like this! Twelve million other children do not get to school mostly because of
2,000,000 miles of roads. That this.



GOOD ROADS—GOOD SCHOOLS—KNOWLEDGE—PROSPERITY
With "Good Reads Everywhore":

Thirty million school children could Al.I. go to school every day in the year with "Good Rouds Everywhere,"

it will again redound to the benefit of the West, only to react again favorably on the East.

One could go on citing examples of this kind without number, aff

One could go on citing examples of this kind without number, all proving the great truth that whatever benefits one portion of a nation benefits the WHOLE nation. This must be admitted by all except those alllicted with an abnormal amount of sectional pride or greed. And, in view of this fact, it is believed that no one can ofter any sound objection to the building of a comprehensive system of National Highways,—highways built, owned, maintained, and controlled by the people of the whole Nation as a unit, and likewise for the use and benefit of all the people, East and West and North and South.

The thirty-nine States of the Union outside of this small northeastern section have 78 votes in the United States Senate to 18 representing the nine Northeastern States. Some of these 18 are big enough and broad enough to know the untold value of such a system of National Highways. These thirty-nine States also have 312 votes in the House of Representatives while the nine Northeastern States have only 123 votes, some of which also know and understand the economic, financial, social, and moral value of the National Highways as the only vehicle by which the Nation can attain Good Roads Everywhere.



The NATIONAL HIGHWAYS ASSOCI-ATION takes pleasure in complying with the request of the Treasury Department of the United States Government codisplay in 2ll of its publications the War Sivings Stamp Appeal as it appears herewith.

150,000 Miles of National Highways

Built and forever maintained by the National Government, will also give us a system of STATE HIGH-WAYS and a main COUNTY ROAD in every one of ALL the 3.0.4 counties in all our forty-eight States.

They will cost
If built in 20 years this means each year 300,000,000,000
Or for each person each year
And for the average family of four persons, each year
But as New York, Pennsylvania, New Jersey, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Counceriout baying only five per cent

of the area of the United States, have one half the national wealth these nine States in the Northeastern corner of our country will pay ONE HALF the cost of BUILDING and FOREVER AFTER MAINTAINING 142,500 miles of National Highways in the otler thirty-nine States of the Uniontherefore

The People of Alabama, Arizona, Arkansas, California, Colorado, Delayare, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Micligan, Minnesota, Mississippi, Missouri, Montana Nebraska, Nevada, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Tennessee, Texas, Utah, V rginia, Washington, West Virginia, Wisconsin, and Wyoming would each pay each year for their National Highways ONLY

But in their building they will pay back their cost by loads two to eight times those hauled on poor roads.

These Thirty-nine States of the West, Middle West, and South have 39(Senators and Representatives in Congress, - a majority of 124 votes. Therefore the West, Middle West, and South have the power to gain Nationa Highways at half their cost, and maintenance fo ever.

Why not demand that your Senators and Representatives vote for the building and maintaining forever by the National Government of a system of

150,000 Miles of National Highways

Facts in the History of Road-Building

Good roads were first built by the more active Township Roads centers of population grew within the frimits munities. Such traffic deep road traffic of adjacent communities. Such traffic directions for the first traffic direction for the public or maintain the roads it marrity destroits the roads and the roads in th

munities. Such traine did rot the build or maintain the roads it partiy destroyed in destruction resulted in a demand for county County Aid appropriations for road-building. The moneys were reported to the state of the state o

State Highways
In those States which now have the best road County Roads
Town Reads
Town Reads
are of road sutherlike. This has produced the largest milescence and uniformity out of chaos, and the money has gone into roads.

age of 2000 rodas in 10° the load chase, and the control of the co

1.50

To Road Builders

Sand Clay road builders would build many miles!
So would Gravel road builders!
But so would Broken Stone road builders!
But so would Broken Stone road builders!
While Tar road builders would set their share!
And Bituninous road builders likevise theirs!
While Tar post builders would set them and the stone Sand Clay road builders would build many miles!

The People of the United States, are demanding National Highways and Good Roads Everywhere which will "bind the States together in a common brotherhood, and thus perpetuate and preserve the Union.'

To this end is pledged the National Highways Association

Good Roads Everywhere Four Fold System of Highways

	URE TO RESULT FROM DING OF GOOD ROADS.	National Highways	State Highways	County Roads	Town or Township Roads	Good Road Everywher
Miles of Ro	ad in Proposed System	150,000	1,000,000	200,000	1,000,000	2,350,0
Percentage	in each class of roads	8.5%	42.5%	8.5%	42.5%	100
S	OCIAL BENEFITS					
Schools and Children	Population directly served by roads	78,200,000	40,000,000	7,400,000	40,000,000	92,000,0
Candida	Percentage directly served	85%	43%	8%	43%	100
Farmers and their Wives	Rural population directly served by roads	36,900,000	18,400,000	5,600,000	41,100,000	48,500,0
and	population	76%	38%	12%	85%	100
Families	Population resident in territory adjacent to roads	12,900,000	1,200,000	800,000		
Churches	Children now attending schools, belped by good roads	1,200,000	7,700,000	1,500,000	7,700,000	18,100,0
And all Social	Children not now in school, whose attendance would be possible with good roads	900,000	5,000,000	1,000,000	5,000,000	11.900,00
Activities of the Nation	Persons now confined in prisons. who could be used on road work to great moral and eco- nomic advantage	7,400	48,800	8,600	48,800	113,6
Cooperation Equalization	AND FINANCIAL BENEFITS Annual increment of ten year increase in land values at 55 per acre within 1 mile of road 53 to 10 to	\$89,300,000	\$595,200,000	\$119,100,000	\$595,200,000	\$1,398,800,0
Cooperation Equalization and Distribution	Annual Increment of ten year Increase in land values at 55 per acre within I mile of road 33	\$89,300,000	\$595,200,000 \$135,000,000	\$119,100,000 \$30,000,000	\$595,200,000 \$135,000,000	\$1,396,800,0
Cooperation Equaliza- tion and Distribution	Annual Increment of ten year Increase in Ind values at \$5 per acre within I mile of road \$3 per acre within I mile of road \$3 per acre within I mile of road \$5 per acre within I mile of road \$1 per acre within I will be					
Cooperation Equalization and Distribution of Profits between	Annual Increment of ten year Increase in Individues at 55 per acre within 1 mile of road 51 nm. 2 nm.	\$300,000,000 \$4,600,000	\$135,000,000	\$30,000,000	\$135,000,000 \$29,800,000	\$600,000,0 \$70,000,0
Cooperation Equalization and Distribution of Profits between City and	Annual Increment of ten year la- crease in land values at 50 per acre within in mile of road 51 in in 3 in 1 in 52 in in 5 in 1 in 52 in in 52 in 1 in 52 in in 52 in 1 in 52 in in 52 in 1 in 53 in in 52 in 1 in 53 in in 52 in 1 in 54 in 1 in 52 in 1 in 55 in 1 in 52 in 1 in 55 in 1 in 1 in 1 in 1 in 55 in 1 in 1 in	\$300,000,000	\$135,000,000	\$30,000,000	\$135,000,000 \$29,800,000	\$600,000,0 \$70,000,0
Cooperation Equalization and Distribution of Profits between	Annual Increment of ten year Increase in Individues at 55 per acre within 1 mile of road 51 nm. 2 nm.	\$300,000,000 \$4,600,000 \$71,500,000	\$135,000,000 \$29,800,000	\$30,000,000 \$5,800,000 \$93,500,000	\$135,000,000 \$29,800,000	\$600,000,0 \$70,000.0 \$1,100,000.0
Cooperation Equalization and Distribution of Profits between City and Country	Annual Increment of ten year Increase in Ina drainer at 50 per acre within 1 mile of road 51 per acre within 1 mile of road 51 per acre within 1 mile of road 51 per acre within 1 mile of road 52 per acre within 1 per acre within	\$300,000,000 \$4,600,000 \$71,500,000	\$135,000,000 \$29,800,000 \$467,500,000 \$3,187,500.000	\$30,000,000 \$5,800,000 \$93,500,000	\$135,000,000 \$29,800,000 \$467,500,000	\$600,000,0 \$70,000.0 \$1,100,000.0 \$7,500,000,0
Cooperation Equalization and Distribution of Profits between City and Country	Annual Increment of ten year Increase in Inad values at 50 per acre within 1 mile of road 51 per acre within 1 mile of road 51 per acre within 1 mile of road 51 per acre within 1 mile of road 52 per acre within 1 per acre within	\$300,000,000 \$4,600,000 \$71,500,000	\$135,000,000 \$29,800,000 \$467,500,000 \$3,187,500.000	\$30,000,000 \$5,800,000 \$03,500,000 \$637,500,000	\$135,000,000 \$29,800,000 \$467,500,000	\$600,000,0 \$70,000.0 \$1,100,000.0 \$7,500,000,0
Cooperation Equalization and Distribution of Profits between City and Country Financial F	Annual Increment of ten year Increase in India values at 55 per acre within 1 mile of road 51 nm are acre within 1 mile of road 51 nm are acre within 1 mile of road 51 nm are acre within 1 mile of road 51 nm are acre within 1 nm are acre wi	\$300,000,000 \$4,600,000 \$71,500,000 \$487,500,000 \$952,900,000	\$135,000,000 \$29,800,000 \$467,500,000 \$3,187,500,000	\$30,000,000 \$5,800,000 \$33,500,000 \$637,500,000 \$885,900,000	\$135,000,000 \$29,800,000 \$467,500,000 \$3,187,500,000	\$600,000,0 \$70,000,0 \$1,100,000,0 \$7,500,000,0 \$10,668,800,0

Note:-It is stated that \$250,000,000 is now being spent annually on the roads of the United States. Probably twice that, is nearer the mark. The first amount should build 20,000 or more miles, the second 40,000 miles—but none of us see such results! A Four Fold System of Highways under honest and competent authority should give the people of the United States "Good Roads Everywhere" within twenty years. It is obvious that in dealing with such vast figures round number approximations must be relied upon. The margins, however, are more than enough to make the conclusions deduced from them safe ones.

END OF TITLE